

# CONTENTS

<b>Chapter 1 ■ Introduction to AutoCAD 2010</b>	<b>1</b>
Introducing New Features in AutoCAD 2010 .....	2
Parametric Drawing .....	2
New or Improved Commands .....	2
Enhancements in Annotations .....	2
Increased PDF Support .....	2
Viewport Enhancement .....	2
Free Form Shape Creation .....	3
Installing AutoCAD 2010 .....	3
Exploring the AutoCAD 2010 User Interface .....	11
The Application Menu.....	11
The Quick Access Toolbar .....	12
The InfoCenter.....	12
The Ribbon.....	12
The Status Bar.....	13
The Quick Properties panel.....	14
The Quick View Layouts .....	15
The Quick View Drawings Button .....	15
Tooltips .....	16
Working with the Command Window .....	16
Entering a Command on the Command Line.....	16
Resizing the Command Window .....	17
Hiding the Command Window .....	18
Working with the Drop-down Menus.....	19
Displaying the Drop-down Menus .....	19
Exploring the Drop-down Menus .....	20
Working with Workspaces .....	21
Exploring Workspaces .....	21
Switching Between Workspaces.....	21
Customizing a Workspace.....	23
Introducing AutoCAD Files .....	25
Starting, Saving, and Opening a Drawing and Setting the Units .....	26
Starting a Drawing.....	26
Setting the Units Format and Precision .....	27
Saving a Drawing .....	29
Opening a Drawing.....	31



Using Help .....	33
Summary .....	34

**Chapter 2 ■ Working with Basic Shapes and Commands 35**

Working with the Coordinate System .....	36
Entering 2D Coordinates .....	36
Entering 3D Coordinates .....	37
Entering Direct Distances .....	37
Drawing Shapes .....	37
Drawing a Line.....	37
Drawing a Polyline.....	39
Drawing a Rectangle .....	42
Drawing a Circle .....	45
Drawing a Donut.....	46
Modifying Shapes.....	48
Creating and Combining Regions .....	49
Using the Copy Command .....	52
Using the Rotate Command.....	54
Using the Offset Command .....	56
Using the Mirror Command.....	58
Using the Move Command.....	60
Using the Scale Command .....	62
Using the Array Command .....	64
Using the Fillet and Chamfer Commands .....	66
Using the Break and Join Commands .....	72
Working with Action Macros .....	75
Starting and Stopping an Action Macro .....	75
Playing Back an Action Macro .....	77
Summary .....	78

**Chapter 3 ■ Drawing the Floor Plan 79**

Drafting Settings .....	80
Drawing Walls .....	80
Creating a Boundary Line .....	80
Creating Exterior Walls.....	82
Creating Interior Walls.....	84
Modifying Walls .....	88
Drawing Doors and Windows.....	94
Drawing the Doors.....	94



Drawing a Window .....	104
Working with the Blocks .....	106
Creating Blocks .....	107
Creating a Block Library .....	108
Drawing Interiors .....	110
Drawing the Kitchen Interior .....	110
Drawing Bathroom Interior.....	117
Drawing Bedroom Interior.....	122
Summary .....	124

**Chapter 4 ■ Modifying the Floor Plan 125**

Drawing Furniture .....	126
Drawing a Sofa.....	126
Drawing Sofa Table and Television.....	127
Adding Door and Window Block to the Floor Plan .....	131
Adding Main Entrance Door Block.....	132
Adding a Kitchen Door Block.....	132
Adding the Back Door Block.....	134
Adding Window Blocks.....	136
Working with DesignCenter.....	138
Working with Fence Walls .....	140
Adding the Fence Wall.....	140
Modifying the Fence Wall .....	143
Summary .....	144

**Chapter 5 ■ Adding Text and Dimensions to the Floor Plan 145**

Working with Text Styles.....	146
Creating a New Text Style .....	147
Managing a Text Style .....	148
Adding Text to a Floor Plan.....	149
Single Line Text.....	149
Multiline Text.....	151
Working with Dimensions.....	153
Creating a New Dimension Style.....	154
Modifying a Dimension Style .....	156
Adding Dimensions to a Floor Plan .....	157
Using the Continue Dimensions Command .....	161
Working with Leaders .....	163
Creating a Leader Style.....	163



Drawing a Leader .....	166
Summary .....	168

**Chapter 6 ■ Adding Layers to the Floor Plan 169**

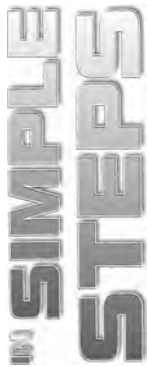
Working with Layers .....	170
Creating a New Layer .....	170
Setting Color of a Layer .....	171
Loading Linetype in a Layer .....	173
Setting Lineweight of a Layer .....	175
Assigning Objects to their Appropriate Layers .....	176
Managing Layers .....	178
Turning Off a Layer .....	178
Freezing or Thawing a Layer .....	180
Locking a Layer .....	181
Summary .....	182

**Chapter 7 ■ Adding Lightning and Electrical Plan 183**

Drawing a Lightning Plan .....	184
Adding Lightning Components to the Living Room Plan .....	184
Adding Lights to the Bedroom Plan .....	186
Adding Lights to the Bathroom Plan .....	191
Adding Lights to the Kitchen Plan .....	192
Creating a Lightning Legend .....	194
Drawing an Electrical Plan .....	201
Adding an Electrical Plan to the Floor Plan .....	201
Creating an Electrical Legend .....	204
Summary .....	206

**Chapter 8 ■ Working with 3D 207**

Working with the 3D Workspace .....	208
Switching to the 3D Modeling Workspace .....	208
Setting Visual Styles in the 3D Modeling Workspace .....	209
Working with 3D Commands .....	210
Exploring the Solid Modeling Commands .....	210
Exploring the Solid Editing Commands .....	222
Working with Navigation Tools .....	240
Using the ViewCube Tool .....	240
Exploring the SteeringWheels Tool .....	241
Summary .....	242



<b>Chapter 9 ■ Plotting and Printing</b>	<b>243</b>
Working with Sheet Set Manager .....	244
Setting Up Drawing for Plotting.....	247
Adding a Custom Paper Size from Scratch for a Layout.....	247
Creating a New Named Page Set Up.....	252
Plotting a Drawing.....	255
Plotting Files in Other Formats .....	257
Summary .....	259